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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/526,870	03/04/2005	Thomas Andreas Maria Kevenaar	NL 020804	5450	
24737 7590 02/19/2008 PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001			EXAMINER		
			HO, BAO QUAN T		
BRIARCLIFF	MANOR, NY 10510		ART UNIT PAPER NUMBER		
			2629		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application	ı No.	Applicant(s)		
		10/526,870		KEVENAAR ET AL.		
		Examiner		Art Unit		
		Bao-Quan T		2629		
Period f	The MAILING DATE of this communication Reply	tion appears on the d	over sheet with the c	correspondence address		
WHI - Exte afte - If N - Fail Any	HORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAIL ensions of time may be available under the provisions of 3' or SIX (6) MONTHS from the mailing date of this communic O period for reply is specified above, the maximum statuto ure to reply within the set or extended period for reply will, or reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	ING DATE OF THIS 7 CFR 1.136(a). In no event cation. by period will apply and will of by statute, cause the application.	S COMMUNICATION t, however, may a reply be tine expire SIX (6) MONTHS from ation to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status						
1)🖂	Responsive to communication(s) filed of	on <u>04 March 2005</u> .				
2a) <u></u> ☐	This action is FINAL . 2b)	☑ This action is no	n-final.			
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the meri					
	closed in accordance with the practice	under <i>Ex parte Qua</i>	yle, 1935 C.D. 11, 4	53 O.G. 213.		
Disposit	tion of Claims					
5)⊠ 6)⊠ 7)□	Claim(s) 1-10 is/are pending in the apple 4a) Of the above claim(s) is/are version is/are version (s) 1-4 is/are allowed. Claim(s) 5-10 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction	withdrawn from cons				
Applicat	tion Papers					
10)⊠	The specification is objected to by the E The drawing(s) filed on <u>04 March 2005</u> i Applicant may not request that any objection Replacement drawing sheet(s) including the The oath or declaration is objected to by	is/are: a)⊠ accepte n to the drawing(s) be e correction is required	held in abeyance. Set if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority	under 35 U.S.C. § 119					
12)⊠ a)	Acknowledgment is made of a claim for D All b) Some * c) None of: 1. Certified copies of the priority docenses of the priority docenses of the priority docenses of the certified copies of the application from the International See the attached detailed Office action for	cuments have been cuments have been he priority documen Bureau (PCT Rule	received. received in Applicati ts have been receive 17.2(a)).	on No ed in this National Stage		
, Attachmer	nt(s)					
	ce of References Cited (PTO-892)	4	i) Interview Summary	(PTO-413)		
2) Notice (3) Information	ce of Draftsperson's Patent Drawing Review (PTO- mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date	5	Paper No(s)/Mail D: Notice of Informal F Other:	ate		

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Specification

- 2. The abstract of the disclosure does not commence on a separate sheet in accordance with 37 CFR 1.52(b)(4). A new abstract of the disclosure is required and must be presented on a separate sheet, apart from any other text.
- 3. The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) THE NAMES OF THE PARTIES TO A JOINT RESEARCH AGREEMENT.
- (e) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC.
- (f) BACKGROUND OF THE INVENTION.
 - (1) Field of the Invention.
 - (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (g) BRIEF SUMMARY OF THE INVENTION.
- (h) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (i) DETAILED DESCRIPTION OF THE INVENTION.
- (j) CLAIM OR CLAIMS (commencing on a separate sheet).
- (k) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).
- (I) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence Listing" is required on paper if the application discloses a

nucleotide or amino acid sequence as defined in 37 CFR 1.821(a) and if the required "Sequence Listing" is not submitted as an electronic document on compact disc).

4. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 101

5. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

6. Claim 5 is rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. The claim recites a "computer program product" which is interpreted as being software per se. The functionality of functional descriptive material is realized only when the functional descriptive material is claimed as being embodied on *a computer readable medium* and is claimed as executed by a computer component. The cited claim provides no tangible computer components that work in conjunction with the functional descriptive material to impart functionality and as a result the claim is not statutory because it fails the practical application requirement of § 101 by failing to provide a useful, concrete, and tangible result (see MPEP 2106).

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

⁽b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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8. Claim 6 is rejected under 35 U.S.C. 102(b) as being anticipate by Sakamoto, JP Publication JP 05323267 A.

As to claim 6, Sakamoto discloses in Fig. 1 a device for reconstructing a graphical message based on a key sequence, comprising

receiving means (random signal generation circuit 16 connected to LCD 12, Page 7, second half of paragraph [0022])) for receiving an encoded sequence of information units,

a first liquid crystal display (LCD 12) arranged for displaying the sequence of information units by rotating the polarization of respective cells in a first liquid crystal layer (23) by an amount indicated by respective elements in the encoded sequence (shown in Fig. 5, LCD 12 is induced with voltage by circuit 16 changing the liquid crystal element 23),

a second liquid crystal display (LCD 15), different from the first liquid crystal display (12), arranged for rotating the polarization of respective cells in a second liquid crystal layer (26) by an amount indicated by respective elements in the key sequence (shown in Fig. 5, LCD 15 is induced with voltage by circuit 16 changing the liquid crystal element 26), in which the first (12) and second liquid crystal display (15) are arranged to be superimposed on each other (shown in Fig. 1).

Claim Rejections - 35 USC § 103

- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

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the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

10. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sakamoto in view of Sato el at. (hereafter referenced as Sato), US Patent 5,712,652.

As to claim 7, Sakamoto discloses the device in claim 6, but does not specifically disclose in which the first liquid crystal display comprises a reflective liquid crystal display.

However Sato discloses a first liquid crystal display comprising a reflective liquid crystal display (col. 10 lines 64-67 to col. 11 lines 1-14),

Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention was made to have used a reflective liquid crystal display as taught by Sato in place of the first liquid crystal display of Sakamoto for the purpose of lower power consumption (col. 11 lines 10-14).

11. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sakamoto in view of Dunn et al. (hereafter referenced as Dunn), US Patent 6,529,209.

As to claim 8, Sakamoto discloses the device in claim 6, Sakamoto also discloses in Fig. 1 wherein the second liquid crystal display (15) is embodied in a unit (glasses, Page 12 in paragraph [0039]) physically separable (wireless) from the first liquid crystal display (12), but does not specifically discloses wherein the second liquid crystal display is provided with a memory for storing the key sequence.

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However, Dunn discloses in Fig. 3, a second liquid crystal display (active glasses with electro-optical elements, col. 6 lines 24-26) is provided with a memory for storing the key sequence (serial number used to decode the seed pattern, col. 9 lines 29-33).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention was made to have added a memory for storing key sequence as taught by Dunn in to the unit of Sakamoto for the purpose of addition security (col. 9 lines 21-33).

12. Claims 9-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sakamoto in view of Blom, Canada Patent 2,214,190.

As to claim 9, Sakamoto discloses the device of claim 6, but does not specifically discloses the device comprising means for receiving input representing a set of coordinates from a user, and means for transmitting the received input to a server.

However, Blom discloses (whole page of Page 5) a device (touch sensitive display) comprising means for (microchip controller) receiving input representing a set of coordinates (touch positions of each security code) from a user, and means for transmitting the received input to a server (system computer).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention was made to have implemented a touch sensitive display and send the input to a server as taught by Bloom to the device of Sakamoto for the purpose of enhanced security (Page 3, section 3.1).

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As to claim 10, Blom discloses (whole page of Page 5) in which the input is received as pressure (touch sensitive display) on a particular spot (touch position) of the first liquid crystal display, the set of coordinates (touch positions of each security code) corresponding to the particular spot.

Allowable Subject Matter

- 13. The following is a statement of reasons for the indication of allowable subject matter: The prior art of record fails to teach or suggest a method of encoding a graphical message using a liquid crystal display base on a key sequence by determining a total rotation value α , choosing an element α_2 for a key sequence, and from these two values computing a value α_1 that is the difference between α and α_2 for determining the encoded sequence in combination into other features and elements of claim 1.
- 14. Claims 1-4 are allowed.

Conclusion

- 15. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - a. Higure M et al., JP 09083512 A, discloses visual cryptography using liquid crystals.
 - b. Struyk, US Patent 6,980,177, discloses an image altering apparatus to provide confidential viewing on a video display.
 - c. Struyk, US Patent 7,319,755, discloses an image altering apparatus to provide confidential viewing on a video display.

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Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bao-Quan T. Ho whose telephone number is (571) 270-3264. The examiner can normally be reached on M-F, 7:30 am to 5:00 pm EST, alt. Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chanh D. Nguyen can be reached on (571) 272-7772. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

BTH

CHANH D. NGUTEN O SUPERVISORY PATENT EXAMINER

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